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- 7. Source of Equipment. All metal-working machine tools and laboratory equipment (absolute and relative interferometers, etc) were received from Germany. Boilers, transformers, pumps, ventilators, pneumatic pumps and compressors were Soviet-made. The universal turning lathe was also Soviet-made, a DIP type, produced by the Serp i Molot Plant in Moscow.
- 8. Production process. Stamping in Shop No 1, mechanical processing in Shop No 2, thermic processing (hardening and tempering) in Shop No 3, and complete finishing (partly mechanical and partly by hand) in Shop No 6 See Table I Enclosure (A)
- 9. Plant bottleneck. The bottleneck of the plant has always been a lack of qualified workers, mainly for hand-made finishing.
- 10. Plant stamp.



- 11. Inspection. A special "Section of Technical Control" existed in the plant. The head of that section was placed directly under the plant director.
- 12. Administration Chart. See Table II, Enclosure (B)7
- 13. Material supply of the plant. High-quality tool steel was supplied by one of the Moscow plants (very small quantity).
- Power sources. High voltage electric current was supplied by the Moscow network. The network draws its current from a series of power plants: the Moscow MGES /Hydroelectric Power Station which operates on coal, the Kashira Plant which operates on turf, etc. Power is brought to the transformer station by two cables from opposite ends of the plant. From the transformer a 220/380 volts current is distributed to the shops through underground cables.
- 15. Gas comes from the Moscow gas network through an underground pipe (approximately eight inches in diameter). Water comes from the Moscow city network.
- A special fire-prevention network operates from pumps located in building No 10.

  Pressure (seven atmospheres) supply is from underground tanks in building No 11.

  In case of interruption in the city water supply, an artesian well is used (building No 18). This well is operated on compressed air (MAMUT system airlift pump).
- 17. Dwellings. Houses were built for workers and employees of the plant. All houses are five-stery buildings with three-room-and-kitchen apartments. The walls are made of brick, 12 bricks thick. Beams and floors are of wood. There is running water, sewage, and electricity. The buildings must be completely dilapidated at the present time.
- 18. Plant sewage system. The sewage system is double. Rain water is drained through concrete pipes to the railroad ditch. Dirty water is drained through ceramic pipes to the city sewage system.

- end -

Enclosure (A): Table I - Buildings of the "Kalibr" Tool Shop Enclosure (B): Table II- Administration Chart

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ENCLOSURE (A)

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## TABLE I BUILDINGS OF THE "KALIBR" TOOL SHOP

Building No.	Function	Equipment	Construction
1	Forge shop	Small hammers and presses	Brick-wall, wood-trusses and roof, reinforced- concrete crane girder
2	Preparatory shop (mechanical)	Precision automatic machines	Reinforced concrete columns and girders, wood beams and roof
3		Gas furnaces oil basins	Brick-wall, reinforced concrete arches, and reinforced concrete floor (beams and slab)
4	'Thermic hardness' shop	Pumps, fans, lab	Brick-wall, wood-beams and roof
3a	'Ditto with a 'basement'	All piping (gas, pres air, water etc) pumps, air-compressor	Concrete floor, reinforced concrete columns
5	'Toilets and 'office of plant'	None	Brick-wall, wood beams wood roof
6	Finishing plant	Small precision machines' and benches for hand work	Reinforced concrete columns, beams, girders
7	Toilets and office of plant	None	and slabs 4-stories Brick-walls, wood beams and floors, reinforced concrete girders 5-stories
8	Repairing and tools shop	Lathes, drills, etc	Brick-wall, reinforced concrete columns and girders, wood beams and roof
9	'Electric'' 'sub-station'	Oil transformer 10,000 V to 380/200 V.	Brick wall and reinforced slab
10	Pump station (water) air- compressor	Water pumps 7 atmospheres	Brick-walls wood roof
11	Water basins below grade elevation	None	Reinforced concrete and ceiling
12	Boiler house	2-Boiler system 'Shuhow'	Brick walls, wood trusses and roof
13	Storage (Magazine)		
14	Main Office	Future Bui	lding
15 5 16 5	Factory School	_	Brick walls, reinforced concrete girders, wood-beams and floors 3-story building
17	Apartment houses	1	Brick and wood 5-story buildings
18	Artesian bore- 'vell'	Air-lift pump	

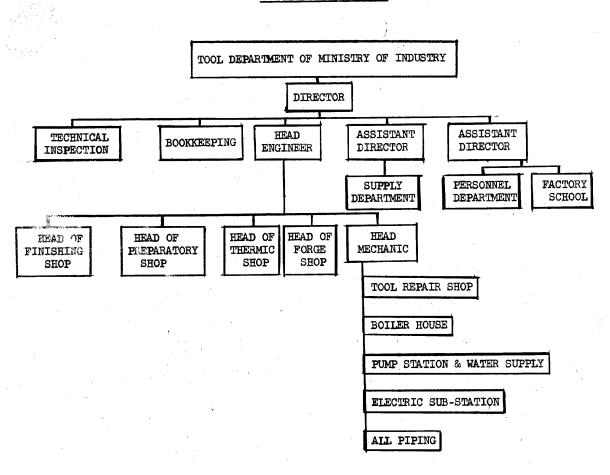
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ENCLOSURE (B)

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## ADMINISTRATION CHART



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